TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-08-29-01** **Date: 01-09-17**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains Nisarga School back side Sampangi Ramaiah layout at Bagalgunte ward No.14
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-10.
Customer Reference	:	BBMP/EE/DD/WO/029/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-17
Sample ID No	:	2017-08-29-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	29-08-17

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.43	11.44	10KN(min)
2	Marshal flow at 60°C, mm	3.65	3.54	2-4
3	Percent air Voids	4.15	4.33	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.97	14.73	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.92	71.31	65-75
6	Density, g/cc	2.24	2.26	–

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-09-04-01**	**Date: 05-09-17**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains Nisarga School back side Sampangi Ramaiah layout at Bagalgunte ward No.14	
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-10.	
Customer Reference	:	BBMP/EE/DD/WO/029/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	04-09-17	
Sample ID No	:	2017-09-04-01-01	
Type of Mix	:	BM (Bituminous Macadam)	
Date of test	:	04-09-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	481	480
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	3.8	4.0
4	Average percentage	%	3.9	

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Lab ID : CP-RW-2017-09-04-01 **Date: 05-09-17**

Sample ID No : 2017-09-04-01-01

AFTER EXTRACTION(Trail-1)

Weight of Sample : 481 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	21	21	4.37	95.6	90-100
19	55	76	15.80	84.2	71-95
13.2	49	125	25.99	74.0	56-80
4.75	128	253	52.60	47.4	38-54
2.36	75	328	68.19	31.8	28-42
0.3	58	386	80.25	19.8	7-21
0.075	78	464	96.47	3.5	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 480 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	19	19	3.96	96.0	90-100
19	57	76	15.83	84.2	71-95
13.2	51	127	26.46	73.5	56-80
4.75	122	249	51.88	48.1	38-54
2.36	73	322	67.08	32.9	28-42
0.3	61	383	79.79	20.2	7-21
0.075	75	458	95.42	4.6	2-8

Note:-

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End of Report